

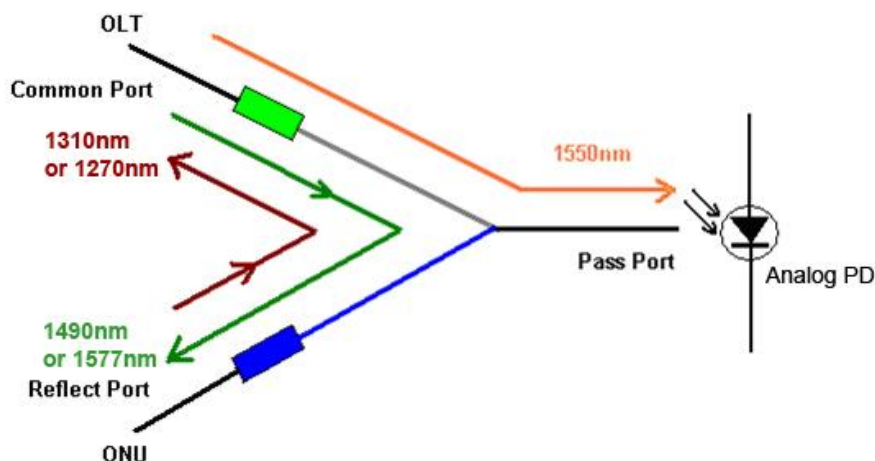
## GFH2000-K FTTH Sat TV Optical Receiver with WDM

GFH2000-K is 1550nm satellite TV RF FTTH optical receiver with 1310nm/1490nm GPON WDM or 1270nm/1577nm XGPON WDM or 1524~1544/1596~1599nm NGPON2, receiving 1555nm Terrestrial TV and Sat RF optical signal from Passive Optical Network (PON) while passing GPON or XGPON or NGPON2 digital signals to ONU device. Working with 1555nm fiber optic transmitter, GFH2000-K outputs high quality terrestrial TV and satellite TV RF.



### Features:

- Compact plastic flame retarding housing
- High Linearity Photodiode for Terrestrial TV and Satellite TV RF
- 45MHz~2600MHz (downstream) RF Output
- Optical AGC range: -10dBm ~ -2dBm
- 1310nm/1490nm Optical Bypass Port to GPON ONU
- 1270nm/1577nm Optical Bypass port to XGPON ONU option
- 1524~1544nm/1596~1599nm bypass port to NGPON2 ONU option
- DC Power and optical input LED indicator
- Powered by satellite receiver at the RF port
- Independent 10~18V DC power adapter port



## Specifications

Item	Parameter
Input Optical Wavelength	1555nm±5nm
Reflecting Channel Wavelength	1260~1360nm, 1400~1544nm and 1570~1610nm
Working Optical Power	-14dBm ~ 0dBm@1550nm
Optical Connector	SC/APC
Optical Return Loss	45 dB
RF Bandwidth	45 ~ 2600 MHz
RF Flatness	±4.0dB
RF Return Loss	>10 dB
Satellite User Bands	32 (typical)
Each User Band bandwidth	36MHz (typical)
RF Connector	American F Female
RF Output Impedance	75Ω
AGC Range	-10dBm ~ -2dBm Optical Input
RF Output Level	>74dBμV @ (-10dBm~-2dBm)
Output to ONU	
Loss at 1310nm/1490nm/1577nm	<0.8dB
Isolation (Com-Pass at 1310nm)	> 35dB
Isolation (Com-Pass at 1490nm)	> 30dB
Isolation (Com-Pass at 1577nm)	> 30dB
Isolation (Com-Reflect at 1550nm)	> 18dB
Output Connector	SC/UPC (SC/APC on request)
Optical Return Loss	>45dB
Environment	
Power Supply	12 V 0.5A (UL or CE approved) Or Powered by satellite receiver
Power Consumption	<2W (not including power adapter)
Working Temperature	-10 ~ +60°C
Board Dimension (L*W*H)	106mm×62mm×25mm
Weight (without power adapter)	85g

## Ordering Information

GFH2000-KXY FTTH Satellite RF Optical Receiver with WDM to ONU

X(WDM Option): None\_GPON WDM only, X\_ both GPON and XGPON WDM

N\_GPON+XGPON+NGPON2 WDM

Y(Power Adapter): None\_no 12V DC power adapter (powered by sat receiver)

U\_UL certified 12V 0.5A power adapter

E\_CE certified 12V 0.5A power adapter European standard

K\_CE certified 12V 0.5A power adapter UK standard